

AMENDMENTS

In the Claims

1-26. (Cancelled)

27. **(Currently Amended)** A computer program product, comprising:

a data structure for an order processing system comprising a complex object comprising a service profile, wherein the service profile represents an asset associated with an account, wherein said asset is a complex asset;

a data manager configured to:

receive at least a portion of the service profile from an external server via an information network, and

generate a business object based on the portion of the service profile;

a transformation engine configured to generate at least a portion of the complex object based on the business object, wherein the complex object is stored in an asset table; and

computer readable storage media, wherein said ~~computer program product is data~~ structure, said data manager, and said transformation engine are encoded in said computer readable storage media.

28. **(Currently Amended)** The ~~data structure~~ computer program product of Claim 27, wherein the asset table comprises ~~at least one~~ a plurality of:

an asset price adjusted to take into account discounts;
a base price of the asset;
a unique identifier of the asset;
an identifier of an account that is billed for the asset;
an identifier of an account at which the asset is provided;
an identifier of an agreement under which the asset is provided;
a status of the asset;
a date that service started;
a date that service ended;

- a price description;
- an identifier of a metering asset with which the asset is associated; and
- an absolute quantity of an item given a position of the item in an asset hierarchy.

29. (Currently Amended) The ~~data-structure~~ computer program product of Claim 28, wherein an action code is set to one of:

- a value to indicate that the asset is active;
- a value to indicate that the asset has been deleted; and
- a value to indicate that the asset has been suspended. [[.]]

30. (Currently Amended) The ~~data-structure~~ computer program product of Claim 27, wherein at least a portion of the information in the asset table is transferred to an order table when a new quote is created.

31. (Currently Amended) The ~~data-structure~~ computer program product of Claim 27, wherein at least a portion of the information in an order table is transferred to the asset table when an order is provisioned.

32. (Currently Amended) The ~~data-structure~~ computer program product of Claim 27, further comprising:

- a quote table representing offers to change the products and services provided to a customer, wherein the quote table comprises ~~at least one~~ a plurality of:

- an identifier of an agreement under which the quote was made;
- an identifier of a metering asset with which this asset is associated;
- an absolute quantity of an item given a position of the item in an asset hierarchy;
- an identifier of an account that is billed for the asset;
- an identifier of an account at which the asset is provided;
- an action code to indicate whether there is a change to the specified service item;
- a telephone number corresponding to these items; and

a unique identifier of the asset.

33. (Currently Amended) The ~~data-structure~~ computer program product of Claim 32, wherein the action code required during the Delta Process is set to one of:

a value to indicate that a quote item was added;

a value to indicate that the quote item was deleted; and

a value to indicate that the quote item was updated.

34. (Currently Amended) The ~~data-structure~~ computer program product of Claim 32, wherein a quote is converted to an order when the customer accepts the quote.

35. (Currently Amended) The ~~data-structure~~ computer program product of Claim 32, wherein multiple service quotes are associated with a customer.

36. (Currently Amended) The ~~data-structure~~ computer program product of Claim 32, wherein multiple service quotes are associated with a service item.

37. (Currently Amended) The ~~data-structure~~ computer program product of Claim 32, wherein a workflow changes the service quote status to “Order Placed” once a quote is successfully converted to an order.

38. (Currently Amended) The ~~data-structure~~ computer program product of Claim 27, further comprising:

an order table representing instructions to change the products and services provided to a customer, wherein the order table comprises ~~at least one~~ a plurality of:

an identifier of an agreement under which the order was made;

an identifier of a metering asset with which the asset is associated;

an absolute quantity of an item given a position of the item in an asset hierarchy;

an identifier of an account that is billed for the asset;

an identifier of an account at which the asset is provided;

an action code to indicate whether there is a change to the specified service item;
a unique identifier of the asset;
a telephone number corresponding to these items;
a date and time at which the order was completed; and
a status field for items in the order.

39. (Original) The ~~data-structure~~ computer program product of Claim 38, wherein the action code is set to one of:

a value to indicate that an order item has been added;
a value to indicate that the order item has been deleted; and
a value to indicate that the order item has been updated.

40. (Original) The data structure of Claim 38, wherein the status field is set to one of:

a value to indicate that an order item is deleted;
a value to indicate that the order item is Active; and
a value to indicate that the order item is Suspended.

41. (Currently Amended) The ~~data-structure~~ computer program product of Claim 27, wherein the asset represents a product with a hierarchy of sub-products.

42. (Currently Amended) The ~~data-structure~~ computer program product of Claim 27, further comprising:

a product integration table comprising ~~at least one of~~:
a track as asset field to indicate whether a product should be converted to an asset by an order-to-asset workflow process;
a metering point field to indicate whether a product requires a metering point;
a price type field; and

a transfer field to indicate whether the asset can be moved when a customer changes address.

43. (Currently Amended) The ~~data-structure~~ computer program product of Claim 42, wherein the price type is one of:

a value to indicate that price is a one-time charge;

a value to indicate that the price is recurring; and

a value to indicate that the price is based on usage.

44. (Currently Amended) The ~~data-structure~~ computer program product of Claim 42, wherein an order type is set to indicate a service order and a status of the order is changed to indicate the order is new.

45. (Currently Amended) The ~~data-structure~~ computer program product of Claim 27, wherein a status of each order line item is set to indicate that the order item is new when the action field is non-null and the status of each order line item is set to indicate that the order item is null when the action field is null.

46. (Currently Amended) The ~~data-structure~~ computer program product of Claim 32, further comprising:

a quote header table comprising ~~at least one of~~:

an identifier of an agreement under which the quote was made;

an identifier of an account to be billed for the asset; and

an identifier of an account at which the asset will be provided.

47. (Currently Amended) The ~~data-structure~~ computer program product of Claim 38, further comprising:

an order header table comprising ~~at least one of~~:

an identifier of an agreement under which the order was made;

an identifier of an account that will be billed for the asset; and

an identifier of an account at which the asset will be provided.

48. (Currently Amended) The ~~data-structure~~ computer program product of Claim 27, further comprising:

a quote header table comprising billing and service account information; and

an order header table comprising billing and service account information,

wherein at least a portion of the information in the quote header table is transferred to the order header table when the quote is converted to an order.

49. (Currently Amended) The ~~data-structure~~ computer program product of Claim 32, wherein at least a portion of the information in the quote table is transferred to an order table when a quote is converted to an order.